TEJUS
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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	14-03-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	78 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	420 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**M sand**	**Proposed Use**	**PCC**
Sample Location	At Site/Plant	**Date of Sampling**	14-03-2020
		Date of Testing	14-03-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	314	526	17.53	82.47	75 - 100
1.18 mm	422	948	31.60	68.40	55 - 90
0.600 mm	480	1428	47.60	52.40	35 -59
0.300 mm	752	2180	72.67	27.33	8-30
0.150 mm	640	2820	94.00	6.00	0 - 10
Pan	180	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	**3000** gms			
Type of Material	**M sand**		**Proposed Use**	**PCC**
Sample Location	At Site/Plant		**Date of Sampling**	14-03-2020
			Date of Testing	14-03-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	314	526	17.53	82.47	75 - 100
1.18 mm	422	948	31.60	68.40	55 - 90
0.600 mm	480	1428	47.60	52.40	35 -59
0.300 mm	752	2180	72.67	27.33	8-30
0.150 mm	640	2820	94.00	6.00	0 - 10
Pan	180	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	14-03-2020
		Date of Testing	14-03-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	84	84	2.80	97.20	95-100
20.00mm	1420	1504	50.13	49.87	30-70
10.00mm	960	2464	82.13	17.87	10-35
4.75mm	434	2898	96.60	3.40	0-5
Pan	102	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	PCC
Location/Source	At Laboratory	**Date of Sampling**	14-03-2020
Period of Soaking	24 hours	**Date of Testing**	15-03-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		651	646	674	
B	Weight of oven - dry sample gm.		642	636	666	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1685	1682	1698	
E	Bulk specific gravity	B / (C + A - D)	2.664	2.661	2.653	**2.659**
G	Absorption (%)	(A - B) *100 / B	1.402	1.572	1.201	**1.392**

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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	15-03-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	95 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	480 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand	Proposed Use	PCC	
Sample Location	At Site/Plant	Date of Sampling	15-03-2020	
		Date of Testing	15-03-2020	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	202	202	6.73	93.27	90 - 100
2.36 mm	305	507	16.90	83.10	75 - 100
1.18 mm	422	929	30.97	69.03	55 - 90
0.600 mm	496	1425	47.50	52.50	35 -59
0.300 mm	740	2165	72.17	27.83	8-30
0.150 mm	635	2800	93.33	6.67	0 - 10
Pan	200	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	At Site/Plant			**Date of Sampling**	15-03-2020
				Date of Testing	15-03-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	74	74	2.47	97.53	95-100
20.00mm	1446	1520	50.67	49.33	30-70
10.00mm	968	2488	82.93	17.07	10-35
4.75mm	434	2922	97.40	2.60	0-5
Pan	78	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Saanthosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	16-03-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	84 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC	
Location/Source	At Laboratory	Date of Sampling	15-03-2020	
Period of Soaking	24 hours	Date of Testing	16-03-2020	

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	674	662	
B	Weight of oven - dry sample gm.	642	666	654	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1684	1698	1692	
E	Bulk specific gravity B / (C + A - D)	2.664	2.653	2.669	**2.662**
G	Absorption (%) (A - B) *100 / B	1.246	1.201	1.223	**1.224**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	At Site/Plant	Date of Sampling	16-03-2020
		Date of Testing	16-03-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
0.00 mm	0	0	0	100.00	100
75 mm	204	204	6.80	93.20	90 - 100
36 mm	316	520	17.33	82.67	75 - 100
18 mm	426	946	31.53	68.47	55 - 90
600 mm	482	1428	47.60	52.40	35 -59
300 mm	756	2184	72.80	27.20	8-30
150 mm	644	2828	94.27	5.73	0 - 10
an	172	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	16-03-2020
		Date of Testing	16-03-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	84	84	2.80	97.20	95-100
20.00mm	1434	1518	50.60	49.40	30-70
10.00mm	962	2480	82.67	17.33	10-35
4.75mm	428	2908	96.93	3.07	0-5
Pan	92	3000	100.00	0.00	

emarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. Santhosh Kumar K R
Sample ID	Cement (ACC Cement 43 Grade)
Date of Sample Tested	17-03-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	74 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	At Laboratory	Date of Sampling	16-03-2020
Period of Soaking	24 hours	Date of Testing	17-03-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		642	654	678	
B	Weight of oven - dry sample gm.		632	644	668	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1680	1686	1702	
E	Bulk specific gravity	B / (C + A - D)	2.667	2.650	2.661	**2.659**
G	Absorption (%)	(A - B) *100 / B	1.582	1.553	1.497	**1.544**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. Santhosh Kumar K R

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	M sand		Proposed Use	PCC	
Sample Location	At Site/Plant		Date of Sampling	17-03-2020	
			Date of Testing	17-03-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	206	206	6.87	93.13	90 - 100
2.36 mm	308	514	17.13	82.87	75 - 100
1.18 mm	426	940	31.33	68.67	55 - 90
0.600 mm	492	1432	47.73	52.27	35 -59
0.300 mm	746	2178	72.60	27.40	8-30
0.150 mm	634	2812	93.73	6.27	0 - 10
Pan	188	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	At Laboratory	Date of Sampling	17-03-2020
Period of Soaking	24 hours	Date of Testing	18-03-2020

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		662	652	664	
B	Weight of oven - dry sample gm.		653	643	654	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1686	1694	
E	Bulk specific gravity	B / (C + A - D)	2.665	2.668	2.669	**2.668**
G	Absorption (%)	(A - B) *100 / B	1.378	1.400	1.529	**1.436**

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Improvements RCC Road and Drain in surrounding area in Ward No.5 Byatarayanapura Sub Division
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. Santhosh Kumar K R
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	18-03-2020
		Date of Testing	18-03-2020

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	70	70	2.33	97.67	95-100
20.00mm	1428	1498	49.93	50.07	30-70
10.00mm	966	2464	82.13	17.87	10-35
4.75mm	438	2902	96.73	3.27	0-5
Pan	98	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

b No.: CECTC/SKR/QC/2019-20 Date: 26.05.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

ient : **Bruhath Bangalore Mahanagara Palike.**

ntractor : **Sri, Santhosh Kumar K.R,** Contractor, Bangalore

me of Work : Improvements RCC Road and Drain in surrounding area in Ward No.05 Byatarayanapura Sub Division

mple Identification : 8mm, 10mm, Fe 500 TMT Bars

chnical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

te of test: : 26.05.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.390	523	559	17
2	10	0.624	532	583	18

e:

he report shall not be reproduced, except in full, without the written approval of the laboratory.
he results indicated above are based on the tests carried out on the samples received in the laboratory.
ny Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.

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NABL ACCREDITED AS PER ISO/IEC 17025:2017

ob No.: CECTC/SKR/QC/2019-20 Date: 27.05.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

lient : **Bruhath Bangalore Mahanagara Palike.**

ontractor : **Sri, Santhosh Kumar K.R,** Contractor, Bangalore

ame of Work : Improvements RCC Road and Drain in surrounding area in Ward No.05 Byatarayanapura Sub Division

mple Identification : 8mm, 10mm, Fe 500 TMT Bars

echnical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

ate of test: : 27.05.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$)	Tensile strength ($N/mm^{2)}$)	Elongation, percent on gauge length
1	8	0.403	530	569	16
2	10	0.615	548	582	17

ote:

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Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

Asst. Executive Engineer
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174 Sri Rahul Complex. Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.

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Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2017

ob No.: CECTC/SKR/QC/2019-20 Date: 30.05.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

lient : **Bruhath Bangalore Mahanagara Palike.**

ontractor : **Sri, Santhosh Kumar K.R,** Contractor, Bangalore

ame of Work : Improvements RCC Road and Drain in surrounding area in Ward No.05 Byatarayanapura Sub Division

mple Identification : 8mm, 10mm, Fe 500 TMT Bars

chnical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

ate of test: : 30.05.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.2% Proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	8	0.398	526	574	18
2	10	0.622	536	589	19

te:

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